## INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

COUNTRY	East Germany		REPORT		25)
SUBJECT	VEB Kabelwerk Vacha Development of UHF Cable in 1954		DATE DISTR.	st 1955	
Г			NO. OF PAGES	2	į.
DATE OF INFO.			REQUIREMENT NO.	RD	25X1
PLACE ACQUIRED			REFERENCES		
DATE ACQUIRED		This	is UNEVALUATED	Information	
	SOURCE EVALUATIONS ARE DI	FEINITIVE ADDRAIG	AL OF CONTENT IS TO	IT 1 TIV 1P	
					25)

1. A coaxial cable, in which the centering of the inner conductor is effected by polystyrol bell-shaped spacers. The inner conductor is of solid copper, 3. 2 mm in diameter, and the outer is a tube, 10 mm in diameter, made of

woven flat copper tape; other technical data are as follows:

(a) Characteristic impedance (b) Capacitance

Z = 60 ohms(tolerance 1 2 ohms) C = 68 pF per meter (tolerance  $\pm 4 \text{ pF}$ )

(c) VSWR (Voltage standing wave ratio)

@ 600 mcs, maximum < @ 1000 mcs, maximum < @ 2000 mcs, maximum <

(d) Attenuation per kilometer

10 mcs 1.33 nepers @ 100 mcs 4.30 nepers @ 1000 mcs 15.0 nepers @ 3000 mcs 30.0 nepers

(e) Maximum permissible strength of UHF signals transmitted:

Outdoor temperature	@ 10 mcs	@ 400 mcs
30° C	2.4 kW	0.37 kW
40° C	1.46 kW	0.22 kW
50° C	0.68 kW	0.105 kW

According to the specification, this cable meets the requirements of DIN Deutsche Industrienorm 47 265.

S-E-C-R-E-T

25X1

STATE	X	ARMY	x	NAVY	x	AIR	Y	FBI		AEC			 
							-4%			7.0	<u> </u>	 1 .	1
(Note: Washington distribution indicated by "X"; Field distribution by "#")													
(Note: Nathington distribution material by "X"; Field distribution by "#".)													

## INFORMATION REPORT INFORMATION REPORT

	Approved For Rel	ease 2008/09/17 : CIA-RDF	P80-00810A007700140001-	4
-	Comment Code			
		·		25X1
		<b>~2</b> ~		
		connecting cable inside	equipment.	rently
3.	An experimental cable to have transmission clat 2000 mcs.	which has been given th haracteristics giving a	e type number B.86. It ttenuation of 23 nepers	is said per km.
				25X1
				29/()
		S=E=C=R=E=T		25X1
				2581